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## In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Original) An isolated region of the Y chromosome between SKY1 and sY83 which encompasses the Y-specific growth gene GCY.
- 2. (Original) An isolated region according to claim 1 which is about 700 Kb in size.
- 3. (Currently Amended) An isolated region according to claim 1 or 2 in which the Y chromosome is a human chromosome.
- 4. (Currently Amended) An isolated region according to claims 1 or 3 claim 1 which is between SKY8 and sY83.
- 5. (Currently Amended) An isolated region according to claims 1 or 3 claim 1 which is between sY79 and sY81.
- 6. (Original) An isolated GCY protein, encoded by a region of the Y chromosome within the interval SKY1 and sY83.
- 7. (Original) An isolated GCY protein according to claim 6 encoded by a region within the interval SKY8 and sY83.
- 8. (Original) An isolated GCY protein according to claim 7 encoded by a region between sY79 and sY81.

- 9. (Original) An isolated GCY protein according to claim 8, which is ADLY or a functional fragment thereof.
- 10. (Currently Amended) A nucleic acid primer having a nucleic acid sequence selected from a nucleic acid sequence as shown in Tables 2, 5, 6, 7A, 7B, 7C or 8 recited in SEQ ID NOS: 1 26, SEQ ID NOS: 27 60, SEQ ID NOS: 61 71, SEQ ID NOS: 72 98, SEQ ID NOS: 99 121, SEQ ID NOS: 122 131, or SEQ ID NOS: 132 147.
- 11. (Original) A method of studying GCY localisation or identifying a GCY gene associated with height comprising the use of a primer according to claim 10 to selectively amplify or detect a region of a nucleic acid molecule.
- 12. (Currently Amended) An isolated protein having greater than 65% homology to the a GCY protein of claims 6-9 encoded by a region of the Y chromosome within the interval SKY1 and sy83, and which contributes to the sex-related height difference in humans.
- 13. (Canceled)